


Engineer: Bruce Page	Date: 9/7/04	 JPS Communications 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Bruce Page	Date: 9/7/04				
Approved: Chris Samios	Date: 9/7/04	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 9/8/04	Size: A	Dwg. #: 5961-271283-APP	Rev: A	Sheet: 1 Of 1

APPLIES TO: VERTEX VX-520 Portable

RADIO MODIFICATIONS: None required.

RADIO PROGRAMMING: Not required

RADIO CONTROLS:

1. Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio. Should be about in the mid-range (12 o'clock) position.

CABLING:

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable	JPS P/N 5961-291283	(5961-271283 + 5961-261002-00)
ACU-T Cable	JPS P/N 5961-281283	(5961-271283 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271283	
RF Connector Type		

DSP-1 JUMPERS:

JP1	Low Impedance *
JP2	Balanced *

DSP PROGRAMMING:

RX Level	3*	0dBm*
TX Level	6*	0dBm*
Squelch Type	VOX*	
COR Polarity	Active Low*	
High Frequency Equalizer	4*	Flat*
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

(* Indicates Default Value)

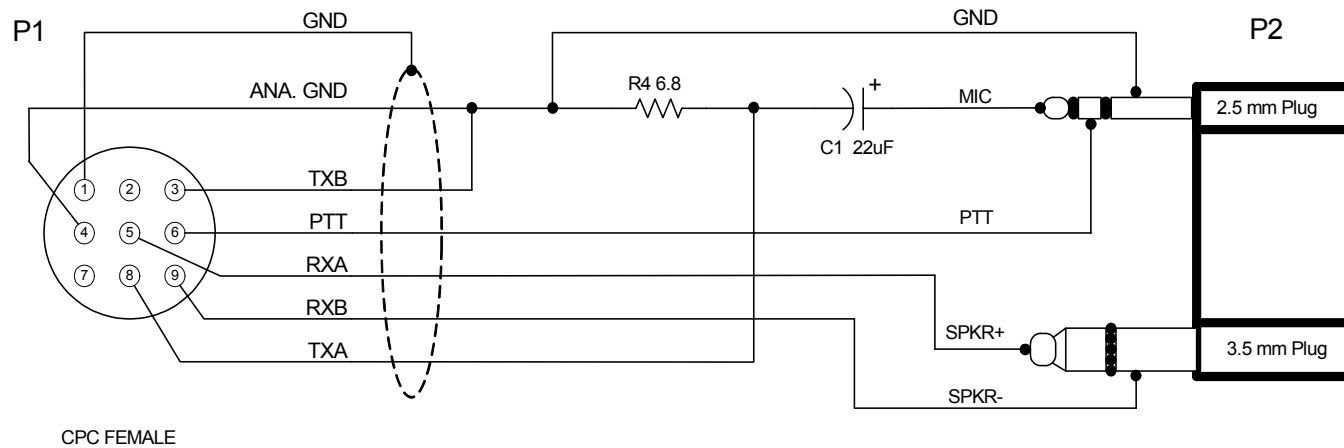
NOTES:

PURCHASED PART

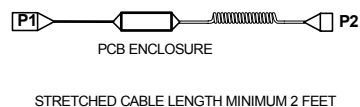
Rev	ECO	Date
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USE MOLDED CABLE
(JPS P/N 5961-261003-00)

DUAL CONNECTOR VERTEX
CURL CORD ASS'Y T9206937
(JPS PN 0314-206937)
BINDING HEAD SCREW M2.6x8SUS
VERTEX PN U20208020
(JPS PN 0839-208020)



CABLE DETAIL



USED WITH:
VERTEX VX-520 PORTABLE

COMPONENT PCB
(JPS P/N 5961-271000)

C1 JPS P/N 0321-220250
R4 JPS P/N 1820-068000
JU2
JU4
JU5

NOTES: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

FOR DETAILED CABLE ASSEMBLY INSTRUCTIONS SEE
5961-271001-CBL.

Designed By: RBP	Raytheon JPS Communications		
Drawn By: RBP	Title CABLE, CPC TO VERTEX VX-520		
Checked By: JAC	Size A	Document Number 5961-271283	Rev A
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Rev	ECO	Date
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- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

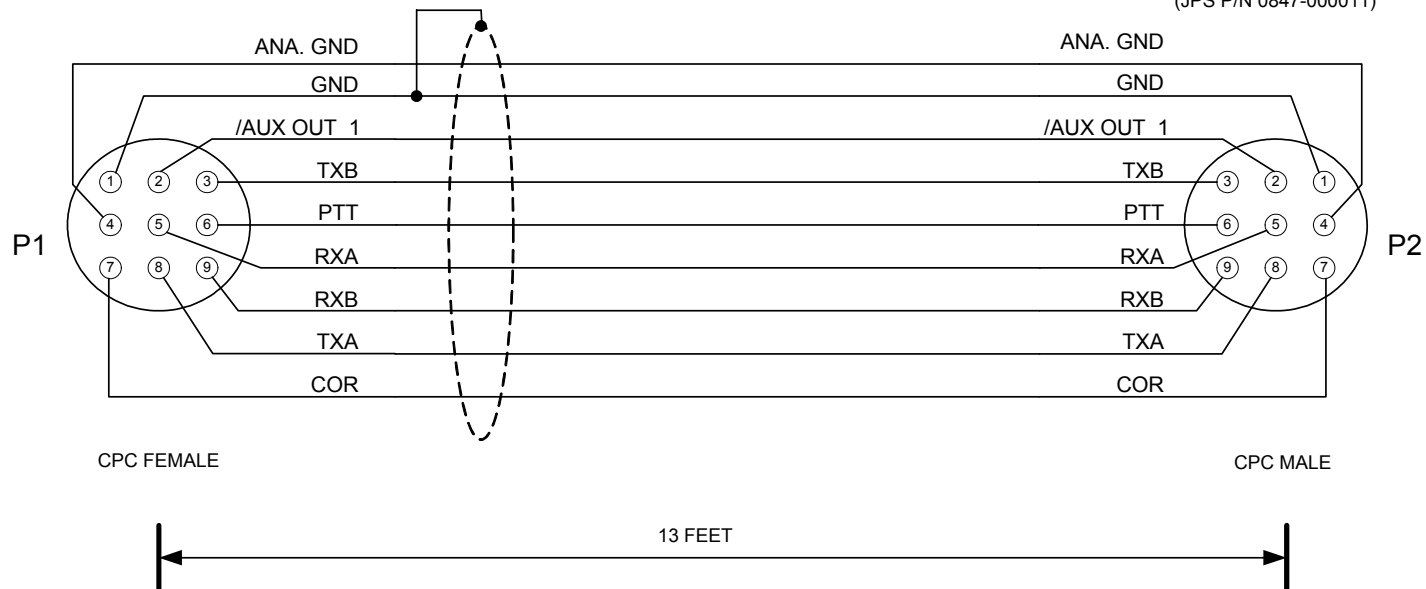
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
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Rev	ECO	Date
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PURCHASED PART

CONNECTOR AMP P/N 206708-1
(JPS P/N 0362-005003)
FEMALE PIN AMP P/N 1-66105-8
(JPS P/N 0362-005002)

CONNECTOR AMP P/N 206705-4
(JPS P/N 0362-009001)
MALE PIN AMP P/N 1-66103-7
(JPS P/N 0847-000011)



- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

Designed By: JAC	Raytheon JPS Communications Raleigh, NC USA		
Drawn By: JAC	Title CABLE, ACU-T RADIO EXTENSION - 13 FT		
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